



MINI REVIEW

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The Use of the "System Method of Leech Therapy" in Severe Transport Trauma, Pelvic Bone Fractures and Subarachnoid Hemorrhage (Clinical Case)

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ABSTRACT

The article describes the treatment of an 83-year-old woman who received a severe craniocerebral injury, with multiple bone fractures, as a result of a traffic accident (RTA) - she was hit by a car while crossing the street. Considering the severity of the victim's disease and the pessimistic prognosis, after 8 days in the hospital - the Central District Hospital (CDH), the patient was discharged for home treatment at the insistence of her daughter. As a result of the complex treatment, in which the leading role was played by the "System Method of Leech Therapy", after 11 months of treatment from the date of the accident, the patient was able to walk and take care of herself independently.

ARTICLE HISTORY

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Introduction

A woman, **83 years old**, was admitted to the emergency room of the Central District Hospital (CDH) from the scene of the accident with the following diagnoses: "Combined road trauma. Closed fracture of the right temporal and parietal bones. Brain contusion. Closed fracture of the acromial end of the right clavicle with slight displacement. Closed fracture of the 2nd rib on the right without displacement. Closed fracture of the pubic and ischial bones of the pelvis on the right with displacement. Contusion laceration of the occipital region. Traumatic shock of the 1st degree". The patient's condition in the hospital was assessed by the doctors as "**Extremely serious**", which follows from the examinations and the data of the "**Discharge epicrisis**", Figure. 1 (A). In the emergency room, blood tests, urine tests, CT scans, ultrasound of the abdominal organs, examination by narrow specialists were made ("Discharge epicrisis", a picture of pelvic fractures and a description of CT (Figure. 1), ultrasound below), stitches were applied to the lacerated wound of the head.

Treatment of the Patient by Day, from the Moment of Injury

Day Three: From the 3rd day, leeches began to be placed daily in agreement with the head of the trauma department; She refused a large list of prescribed pharmaceuticals, received painkillers and B vitamins, in the process of treatment in the trauma department of the Central District Hospital.

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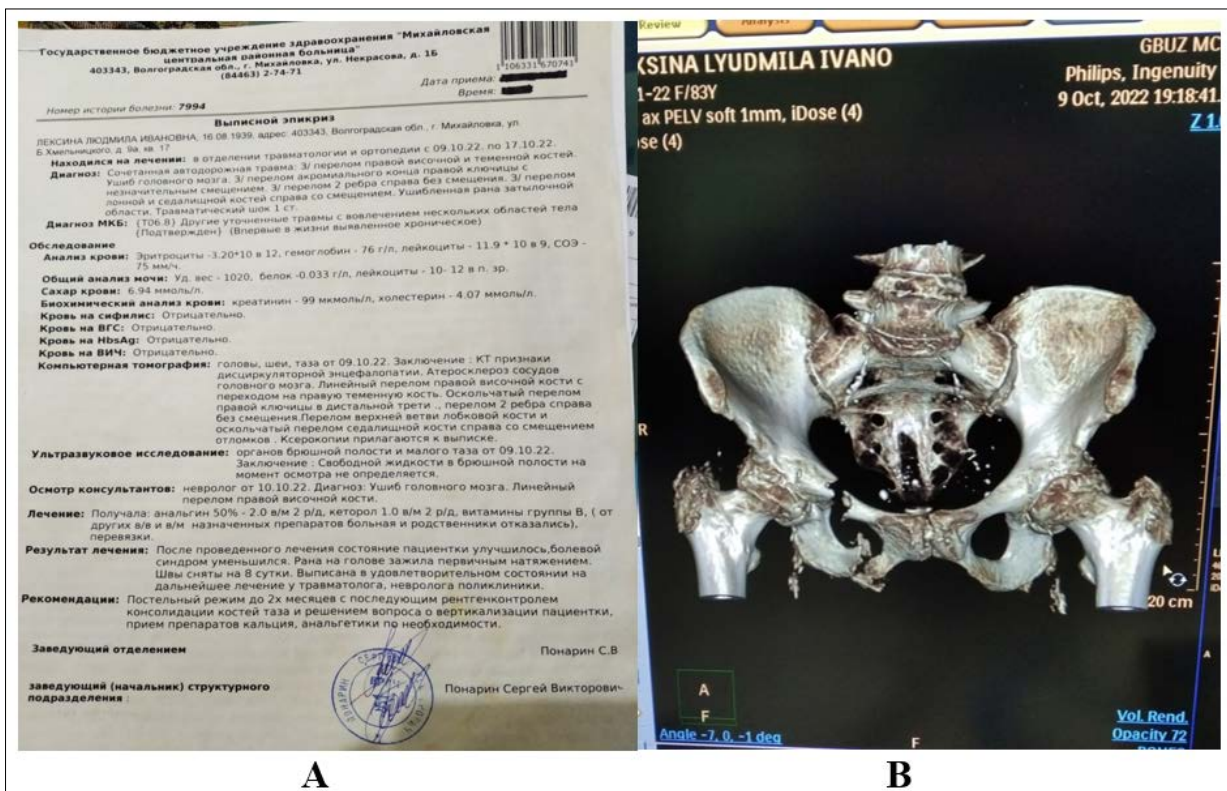


Figure 1A: "Discharge Epicrisis" of the Hospital Institution – The Central District Hospital (CDH), Where the Patient Spent 8 Days in The Hospital, 09.10.2022. - 17.10.2022.

Figure 1B: CT (Computed tomography) of the Pelvic Bones on the Day of the Accident Upon Admission to the Hospital, 09.10.2022

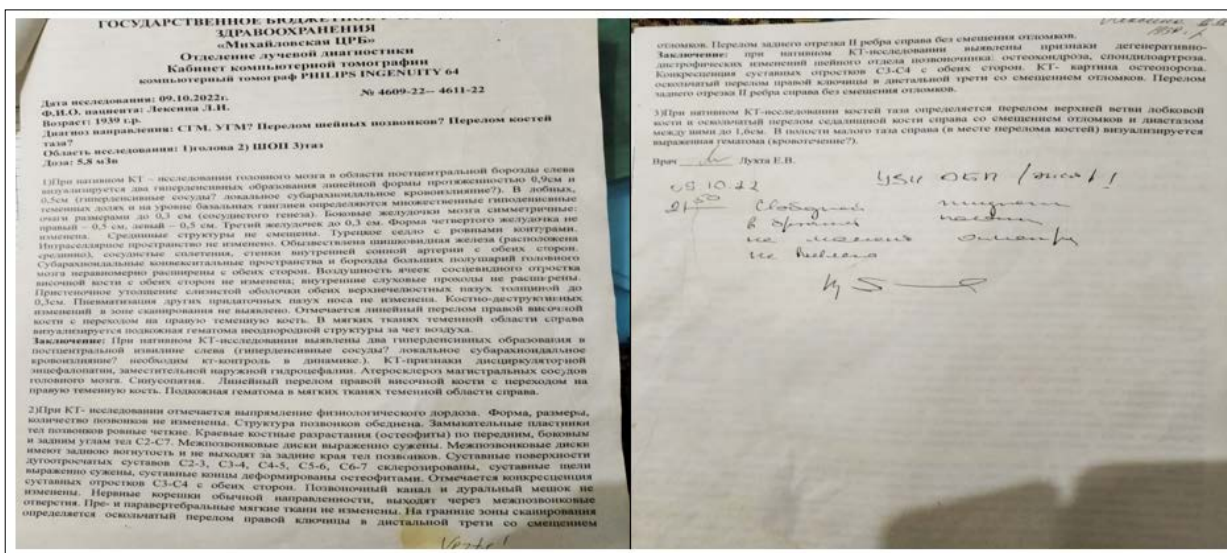


Figure 2: Description of CT and Ultrasound (Ultrasound) of the Pelvic Organs, Performed Upon Admission to the Admission Department after an Accident (09.10.2022)

When she was discharged home, the patient refused the offered drugs to relieve pain. The doctor suggested that the patient's daughter think about it and come back in a few days, hoping that there was a high probability that her daughter would agree to the use of drugs for pain relief, but the meeting did not take place.

Day Eight

On the 8th day (stitches were removed from the lacerated wound of the head in the parietal region). After discharge from the hospital, they continued treatment at home.

First 3 Weeks after Discharge from the Hospital

Leeches were placed daily in the morning and evening, considering the severity of the condition and clinical manifestations, in total from 9 to 15-19-25 leeches daily.

From November 8, 2022 to February 2023

Setting leeches once a day, in the morning or in the evening, the number of leeches per session is from 3 to 15.

The location of leeches and their number were related to the places of injury: head, chest and pelvic bones, 1-2-3 leeches were placed on the feet to maintain the tone of the vessels of the lower extremities, alternating the right and left sides.

In the first weeks, when refusing food, intermittent fasting was used with an 18-hour night interval and a 6-hour day break, (on the recommendation of dr. Goloshubov A.V.), a normal food regime was formed: without breakfast, lunch and dinner, then after 3 weeks they switched to 3 meals a day.

Meat and Potatoes Were Excluded from Food

- Farm dairy products prevailed in the diet: milk, butter, cheese, cottage cheese;
- Country chicken eggs;
- Porridges: semolina, buckwheat, oatmeal, rice, millet – sometimes cereals were mixed and after grinding, mixtures of cereals were prepared;
- 1-2 times a week, sea fish was present in the diet;
- Red lentils in cutlets;
- Vegetables included beets, turnips, carrots, and cabbage;
- Borscht with beans, lentils.

From January 2023

From January 2023: To normalize hemoglobin levels, the patient received chelated iron ("Evalar") 1 tablet in the evening after dinner from 6 to 9 p.m. From the 3rd week after the injury, the patient received the drug "Blastophagus" (based on "Celandine") 1 drop in each nostril, homeopathic dilution according to the universal scheme of "Adaptation Therapy" [1].

Of the pharmacy preparations for constant use, the following were used: tinctures of "Motherwort" and "Valerian" (15-20 drops in the morning and evening, in some cases I added "Corvalol" 30 drops), "Asparkam" and "Ascorutin" tablets 1 tablet 3 times a day; in the evening – 1 tablet of "Cryocalcium" and in the morning – 1 tablet of "Biovit" (for normalization of stool, company "Santeville") and 3 times a day homemade fermented milk (as a medicine), 2-3 tablespoons before meals.

Once a month, the patient was visited by a local doctor at home. During the visit, the doctor recorded blood pressure (BP) in the parameters: 110-125/65-75, clinical complaints decreased with treatment.

The main clinical manifestations were associated with: impaired consciousness and memory loss, disorders of urination and defecation, periodic complaints of sleep disorders, tearfulness, hysterical seizures, partial amnesia, pain in the area of fractures, heart pain, refusal to eat, headaches, nervousness, sudden mood changes and other manifestations.

Against the background of daily use of leeches, the complaints became more specific and decreased, manifesting themselves in waves, with an increase in the duration of periods of well-being and tranquility, improvement in well-being and quality of life.

In December 2022, 2.6 months after the date of the accident, they began to raise the head end of the bed, placing a small mattress rolled up with a roller, creating a reclining position; In mid-January, after 3 months, she ate in a sitting position and after 3.6 months, the woman began to stand on her feet, with support, by the bed.

At the beginning of February 2023, 4 months after the injury, she began to move around the room with support and walking sticks.

Repeated CT scan (3D screenshot of the pelvic bones and description), Figure 3 A,B.

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C-reactive protein 0-10 mg/l	-	-	-	-	-	-	6.5
Platelets 160-390 x10 ⁹ /l	-	347	462	238	202	210	230
Lymphocytes % 9.0-39.0	-	20.2	29.8	19.7	34.4	21.1	27.4
Neutrophils % 40.0-77.0	-	63.5	57	67.4	47.9	63.1	54.3
Eosinophils % 0.03-0.60	-	3.7	2.6	1.7	3.1	3.8	5.9
Basophils % 0.00-0.11	-	0.9	0.3	0.5	0.8	0.5	0.7
Basophils % 0.00-0.11	-	11.8	10.3	10.7	13.9	13.5	11.7
Erythrocytes nucleated % 0.0-0.0	-	0.1	0.0	0.0	0.0	0.0	0.0
ESR mm/h (Westergren method)	75	70	92	38	49	44	37

Note: In February, April, June and July 2023, no blood tests were taken.

Control of "Integral Blood Toxicity"

From October 2022 to April 2023, the following leech deaths were observed: 113 in October (this was 66% of the total number (170) of leeches in that month). The mass death of leeches is clearly demonstrated by the "Integral Blood Toxicity" indicator. For the first time in clinical practice, this indicator was proposed by professor Krashenyuk A.I. in 2003 [4,5].

This indicator is extremely important in severe injuries, intoxication and after fractures, since the breakdown products of cells of destroyed blood vessels, bone tissue and damaged brain cells (in the presence of subarachnoid hemorrhage) are present in the circulating blood.

In March and April 2023, leeches were placed every 1-2 days, taking into account the improvement in health and blood counts. Treatment and follow-up are ongoing; setting leeches in 2-3 days, 3-5-7 leeches, depending on the state of health. The patient walks around the apartment, takes care of herself on her own, goes to the store with chopsticks to buy groceries and for short walks near the house, goes up and down the stairs on her own (she lives on the 2nd floor).

Table 2: Distribution of The Number of Attached and Dead Medical Leeches During the Treatment Period by Months

Months, Year	Number of leeches attached	Number of dead leeches	Number of dead leeches in %
October, 2022	170	113	66
November, 2022	306	41	13
December, 2022	241	52	21
January, 2023	158	40	21
February, 2023	122	43	34
March, 2023	69	19	27
April, 2023	76	21	27
Total: 7 months	1322	329	

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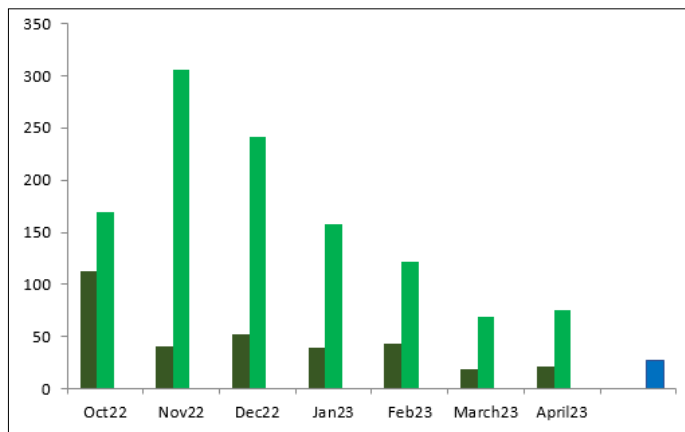


Figure 4: Graph (histogram) of the number of attached and dead leeches by months. On the vertical axis, the indicator of the number of leeches delivered. (Green color - set leeches, brown color - dead leeches). On the horizontal axis, the month and year of treatment.

Prior to the injury, the patient had been constantly treated with medical leeches according to the author's method "**System Method of Leech Treatment**" since 2013 [2]. This method is based on a combination of two technologies:

The classical method of the father of homeopathy, S. Hahnemann:

- The principle of small doses (homeopathic doses of leech secretions);
- Long period of treatment;
- "Like cures like" and the principle of "Hirudopuncture" (Placing leeches on acupuncture points).

The history of the victim, at the time of the start of treatment in 2013, included a "Bouquet" of diseases: Chronic coronary heart disease (CCHD), heart rhythm disorders and conduction disorders of the right bundle branch (presumably a microinfarction suffered on the legs), varicose veins of the lower extremities (advanced stage - the prospect of amputation), microstrokes (suffered on the legs), hypertension (periodic crises from 150/90 to 210/180), pancreatitis, gastroduodenitis, postpartum hemorrhoids.

During the dynamic observation by the therapist and cardiologist, age-related disorders and diagnoses began to be written in the card: Coronary heart disease (CHD), conduction disorders, hypertension (HA) - ceased to appear in the doctors' report, the skin of the legs acquired a natural pinkish color, although periodic complaints of pain in the legs after a long load occur.

Some of the scientific discoveries of the Academy of Hirudotherapy clearly demonstrate the possibilities of the "**System Method of Leech Therapy**" in the treatment of such complex cases as the above-mentioned clinical case with fractures and subarachnoid hemorrhage. The phenomenal therapeutic effect described in the article is based on little-known properties of medicinal leeches [6].

Let us briefly remind our readers about them, they are described in more detail in our works" [6-8]:

1992 – Discovery of the "Phenomenon of Biochemical Adaptation";

1993 – Discovery of the energy effect (information-entropy);

1996 – Discovery of the neurite-stimulating effect of medicinal leeches;

2001 – Discovery of the acoustic effect of leech therapy (hirudotherapy);

2003 – Discovery of the detoxification effect of leech therapy (hirudotherapy);

2004 – Discovery of the phenomenon of local hyperthermia in the body of a benign brain tumor – neurinoma;

2005 – Discovery of the negentropic effect of leech therapy (hirudotherapy);

2007– The role of autohemogyrudotherapy in the formation of the immunomodulatory effect of leech therapy (hirudotherapy) was shown;

2010 –Discovery of the aqua-structuring effect of leech therapy (hirudotherapy);

2016 – Discovery of the "Resonance and Wave Effect" of leech therapy on the state of the "Human Aquasystem".

The mechanisms of the medicinal leech's effect on the human body are based on complex patterns of conditioned reflex reactions that lead to the normalization of nervous processes, the work of the endocrine and vegetative systems, with the improvement of adaptive, protective and compensatory reactions of the body, and has a combined and multistage character in the "**Human Aquasystem**" [6-8].

Conclusion

Traumatic and hemorrhagic shock is the leading cause of death in patients with pelvic fractures (up to 50–70%). When it is ascertained, more than 65-70% of the injured die at the pre-hospital stage. In second place is bleeding as a cause of death (20-25% of cases). Sepsis, renal failure, and pneumonia (6–10%) are the most common complications that lead to death in the late stages after injury [9]. 30-50% of patients who have undergone PCT are recognized as disabled. A high percentage of mortality and disability, significant disability and, as a result, material costs – all this is an urgent medical and social problem all over the world [9]. According to many authors, the greatest danger is posed by unstable fractures of the pelvic bones, as well as its polyfocal injuries, in the structure of which there are fractures of the acetabulum and injuries of the pelvic ring. Optimism in the treatment of this patient with a severe injury - multiple bone fractures - was also given by the experience of treating the clinical

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case of bone infarction described earlier [10].

The efficacy of treatment of various diseases with the use of the "System Method of Leech Therapy" (the author's method of professor Krashenyuk A.I., monograph) has been proven by the duration and effectiveness of its use in practical medicine and the presence of many students and followers who have been trained for more than 30 years and have been using this method in practice for the treatment of various diseases since 1992 [11].

References

- [1] Garkavy LKh, Kvakina EB, Kuzmenko TS. Anti-stress reactions and activation therapy, M.: "IMEDIS". 1998.
- [2] Krashenyuk AI, Krashenyuk SV. "System Method of Leech Therapy" (hirudotherapy), homotoxicology: similarity and differences, Second World Congress of Hirudotherapy. Abstracts. Moscow. 2016; 7: 42-47.
- [3] Krashenyuk AI. Method of treatment by medical leeches. RUSSIA. Invention Patent No. 2787525. Application No. 2021136998. Priority of the invention December 13, 2021 Date of state registration in the State Register of Inventions of the Russian Federation. 2023.
- [4] Krashenyuk AI. Medical leech as an indicator of "Integral blood toxicity" (detoxification effect of hirudotherapy). "HIRUDO-2003" Proceedings of the Conference of the Association of Gyrudologists of Russia and the CIS Countries. 2nd edition, supplemented by Moscow. 2003; 69-71.
- [5] Krashenyuk AI. "COVID-19" – "POSTCOVID SYNDROME" Pandemic: Complex Treatment with Medical Leeches, Including Detoxification. Confirmation of the Validity of the Theory "HOMOTOXICOLOGY" of H. - H. RECKEVEG, Journal of Clinical Epidemiology & Toxicology. 2022; 3: 1-7.
- [6] Krashenyuk AI. «COVID -19»: Prospects for the Treatment and Rehabilitation of «POSTCOVID SYNDROME» by Ayurvedic Method – Hirudotherapy, Acta Scientific Medical Sciences 5.5. 2021; 133-144.
- [7] Krashenyuk AI, Markova EP. Study of the mechanism of interaction between a human and a medicinal leech. Proceedings of the Congress-2014. Fundamental Problems of Natural Science and Technology. 2014; 36: 191-197.
- [8] Krashenyuk AI, Krashenyuk SV, Markova EP. A System Approach to the Study of the Mechanism of Interaction between a Person and a Medical Leech in the "System Method of Leech Treatment". // Collection "Renaissance of leech treatment in Russia XX-XI century". International conference dedicated to the 25th anniversary of the first department of leech therapy in Russia and the world. Saint Petersburg. Publishing house of the Central Research Institute "ASTERION", 2021; 223-330.
- [9] Khourani MYu, Linnik SA, Kucheev IO, Tkachenko AN, Romashov PP. Diagnostics and treatment of pelvic fractures, Fundamental Research. 2014; 10: 1866-1871.
- [10] Krashenyuk AI, Burkhonov AB. Aseptic Necrosis of the Joints, As A Complications of "POSTCOVID SYNDROME" (Clinical Case). Journal of Clinical Case Studies, Reviews & Reports. 2022; 4: 1-6.
- [11] Krashenyuk AI. Pandemic "COVID-19 - POSTCOVID SYNDROME". Observations and conclusions. Experience of leech treatment", Monograph. St.-Petersburg. 2023, Izd. ASTERION, 218 p.